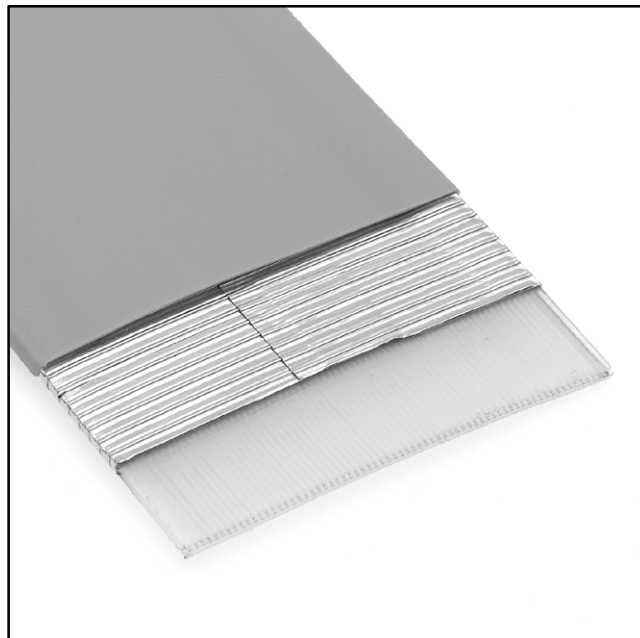


# 3M™ Pleated Foil Shielded Cable

.025" 30 AWG Solid, TPE Primary, TPE Cover

90211 Series





- Can be used with IDC mass termination connectors
- Can be used in applications requiring standard impedance of 75 ohms single ended
- Extremely low crosstalk, used in the all signal mode to quadruple signal density as compared to standard .050 inch flat ribbon cable
- Perfect for board-to-board applications within electronic equipment, TPE cover prevents pleated copper foil from accidental shorting
- Solid pleated copper foil provides flexibility and 35 db average shielding effectiveness

Date Modified: May 30, 2003

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Sheet 1 of 2

## Physical

**Cover**  
Material: Thermoplastic Elastomer (TPE)  
Color: Gray  
Primary Material: Thermoplastic Elastomer (TPE)  
**Marking:** None  
Canadian Option:  AWM 20674 105C 150V VWI 3M NU  AWM IA 105C 150V FTI  
EU <50V  
**Conductors:** 30 AWG [ 0.254 ] Tinned Solid Copper  
**Shielding:** Solid, Pleated, Copper Foil

## Electrical

<b>Voltage Rating:</b>	USA: 150V	Canada: 150V	EU: <50V
<b>Insulation Resistance:</b>	(Primary Cable) $>1 \times 10^{10} \Omega / 10 \text{ ft. [ 3m ]}$		
	<b>Unbalanced</b>	<b>Balanced</b>	
<b>Characteristic Impedance</b>	72 $\Omega$	129 $\Omega$	
<b>Capacitance</b>	21.0 pF/ft [ 68.9 pF/m ]	11.6 pF/ft [ 38.1 pF/m ]	
<b>Inductance</b>	11 $\mu\text{H}/\text{ft}$ [ 0.36 $\mu\text{H}/\text{m}$ ]	.19 $\mu\text{H}/\text{ft}$ [ 0.62 $\mu\text{H}/\text{m}$ ]	
<b>Propagation Delay</b>	1.51 ns/ft [ 4.95 ns/m ]	1.50 ns/ft [ 4.92 ns/m ]	
<b>Velocity of Propagation</b>	67%	68%	

Note: Unbalanced is measured between ground-signal-ground conductors with shield grounded. Balanced is measured between signal conductor within a pair, with the shield floating.

## Environmental

**Temperature Rating:** -20°C to +105°C  
**Flammability Rating:** USA: VW-1      Canada: FT1

UL File No.: E42769, Style No.: 20674

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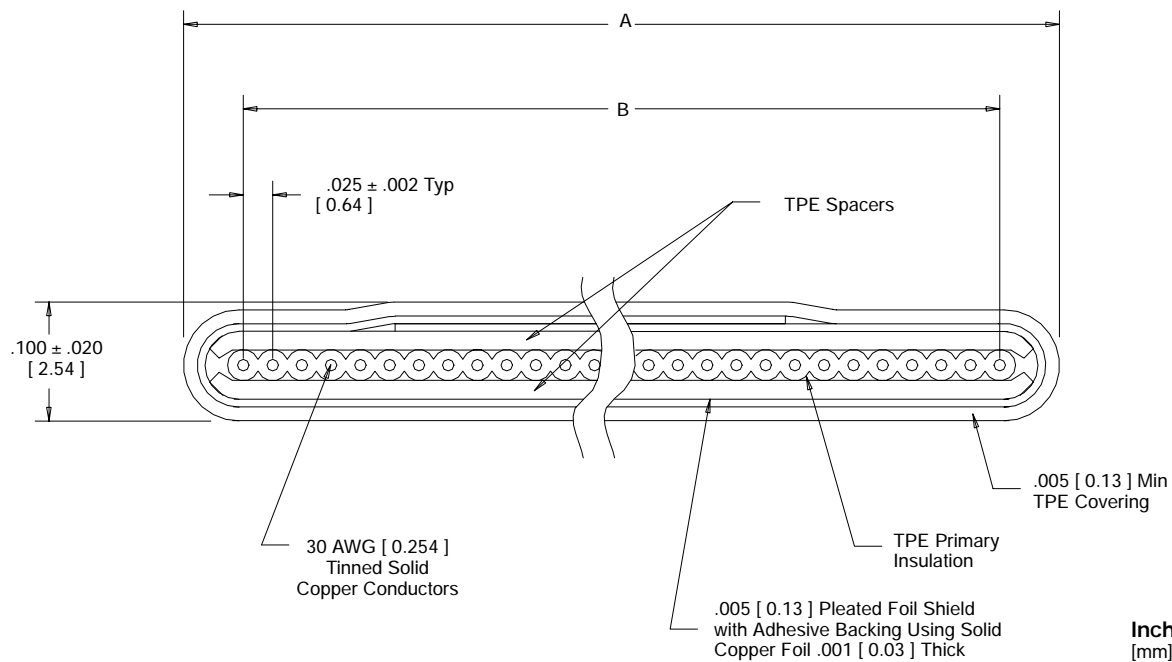
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# 3M™ Pleated Foil Shielded Cable

## .025" 30 AWG Solid, TPE Primary, TPE Cover

90211 Series

Number of Conductors	3M Part Number	Dimension A ± .04	Dimension B
20	90211/20	.62 [ 15.8 ]	0.475 ± .004 [ 12.07 ]
26	90211/26	.77 [ 19.6 ]	0.625 ± .004 [ 15.88 ]
36	90211/36	1.02 [ 25.9 ]	0.875 ± .006 [ 22.23 ]
40	90211/40	1.12 [ 28.5 ]	0.975 ± .006 [ 24.77 ]
50	90211/50	1.37 [ 34.8 ]	1.225 ± .009 [ 31.12 ]
68	90211/68	1.82 [ 46.2 ]	1.675 ± .012 [ 42.55 ]
80	90211/80	2.12 [ 53.9 ]	1.975 ± .012 [ 50.17 ]
100	90211/100	2.62 [ 66.6 ]	2.475 ± .015 [ 62.87 ]



Inch  
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.01	±.005

Note: Blue marking on one edge of primary cable designates wire #1.

[ ] Dimensions for Reference only

## Ordering Information

90211/XXX

Blank = Standard  
C = Canadian Certified Version

Number of Conductors  
(See Table)

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Sheet 2 of 2

Note: Standard length is 100 ft/roll.

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### Electronic and Interconnect Solutions Division

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